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ABSTRACT

This report summarizes the activities of the Office of Instructional Technology in providing instructional technology to South Carolina schools. The office is responsible for the development, acquisition, scheduling, and utilization of television and radio resources for grades K-12, staff development, and adult education, which are broadcast over the South Carolina Educational Television and Radio Networks, and for the administration of computer-assisted instruction in the public schools. The staff participated in identifying 56 major objectives for the office's Annual Management Plan, and a calendar of activities was developed so that each staff member could review monthly progress. Primary activities for the year in computer-assisted instruction included revising computer software advisory listings, providing workshops, and conducting the fifth annual statewide computer survey. The staff of the Utilization Section conducted an annual utilization survey of interactive television (ITV) and radio in order to better manage delivery of consultant services, improve local reception, schedule resources over the network, and place radio and television sets where they are most needed. In addition, a diversified program of staff development offerings was broadcast daily, consisting of 43 ITV and radio series and 99 single-program specials, and 13 teleconferences were held during the year. A statewide survey of computer use in schools and districts was undertaken, and the results are compared with those of previous surveys. The text is supplemented by various tables, charts, and diagrams. (EW)

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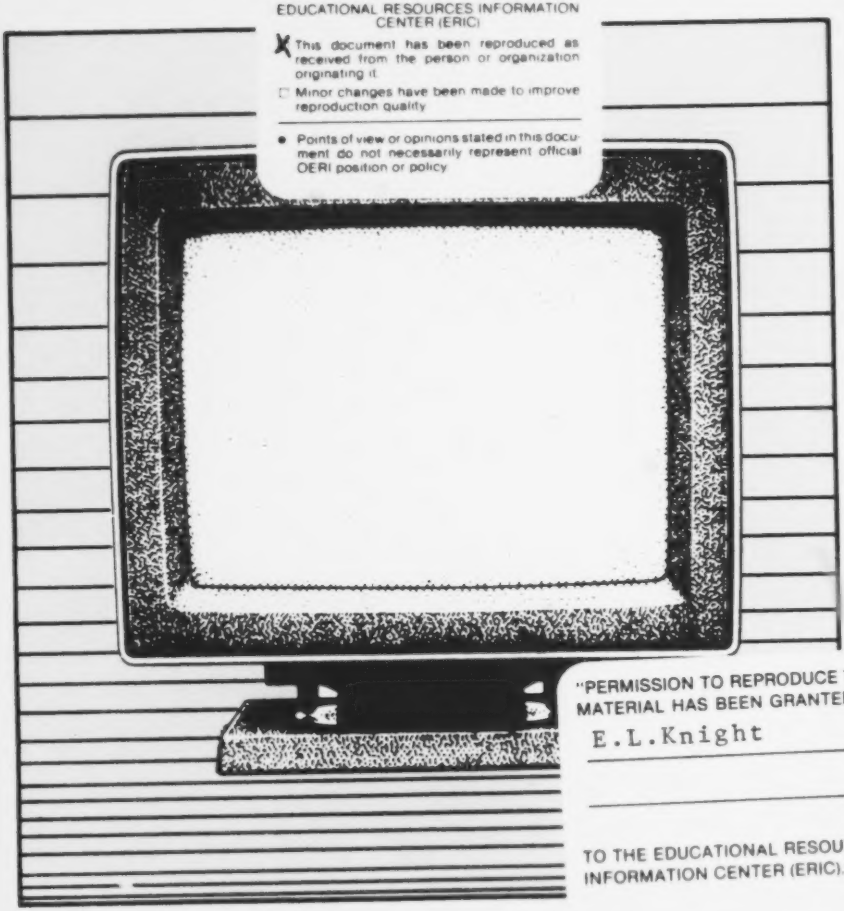

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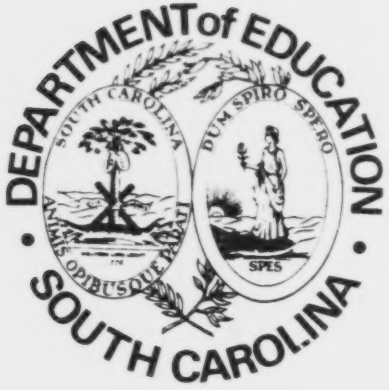
1987-88



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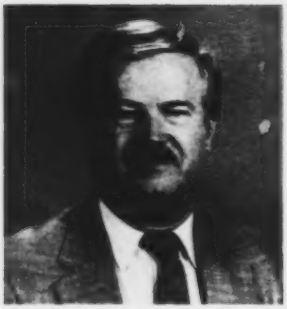

Clyde H. Green, Director
Office of Instructional Technology

The information contained in this report reflects the record of our services in helping to meet the educational needs of the public schools of South Carolina. The 1987-88 school year was the 29th year in which instructional television resources were available. A few of the more significant facts of the year include:

- 95 percent of all schools used ITV via either open-circuit, ITFS, or taped programs.
- 82 percent of all students used ITV as a learning resource.
- 49 percent of all teachers utilized ITV.
- 92 percent of all schools had some videotape recording equipment (1,023) for instructional purposes.
- 85 percent of all television sets used for instruction were color sets.
- 97 percent of all schools had some color sets.
- 16,752 of the 18,942 total TV sets available were used for instructional purposes by 18,754 teachers.
- 39 percent of the 399 staff development programs were new. Total series/program usage was by 5,497 educators.
- 403 educators earned certification-renewal credit utilizing TEACHING SCIENCE IN THE ELEMENTARY SCHOOL: LIFE SCIENCE and SOUTH CAROLINA HISTORY FOR TEACHERS.

A computer survey was taken to report activities for the 1987-88 calendar year with the results as follows.

- 97 percent of all schools had some microcomputers (90 percent of all schools had some microcomputers for instructional purposes).
- 29,766 computers were in schools (for instructional and administrative uses).
- 51 percent of all instructional personnel was judged to be "computer literate."

A major microcomputer activity was a fifth revision of recommended software for Basic Skills Assessment Program (BSAP) math (grades 1-8) a fourth revised selection of software for language arts (grades 1-8), and a third revision of the recommended software programs for science (grades 1-8) publications.

A central microcomputer lab at S.C. ETV and "mini-labs" in each of the five utilization field offices continued to serve educators.

It is evident from this report and the survey of utilization provided by teachers and principals that technology continues to make substantial contributions to the educational process in the schools of South Carolina.

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OFFICE OF INSTRUCTIONAL TECHNOLOGY
STATE DEPARTMENT OF EDUCATION
CLYDE H. GREEN, DIRECTOR

SUMMARY REPORT
1987-88

The Office of Instructional Technology is responsible for the development, acquisition, scheduling, and utilization of television and radio resources for grades K-12, staff development, and adult education, which are broadcast over the S.C. Educational Television and Radio Networks; and for the administration of computer-assisted instruction in the public schools.

ANNUAL MANAGEMENT PLAN

The staff participated in identifying 56 major objectives for the 12th year of the office's Annual Management Plan. To achieve each of these objectives, a calendar of activities was developed so that each staff member could review progress monthly. Reflected throughout this report is a high degree of achievement of these objectives, which are as follows.

A. PLANNING

1. Conduct a needs assessment and develop a program for 1988-89 of instructional television resources for approval by the State Board of Education.
2. Develop a Management Plan for 1988-89.

B. FISCAL MANAGEMENT

3. Provide for the leasing of the State Board-approved instructional television resources for 1988-89.
4. Prepare the proposed budgets for updating the five-year cycle.

C. PERSONNEL MANAGEMENT

5. Plan for the professional growth and development of office staff through workshops, seminars, staff meetings, and conferences.
6. Evaluate personnel according to State Personnel and State Department of Education policy.
7. Identify, screen, recruit, and recommend employment of professional staff members.

D. ADMINISTRATION

(Print)

8. Revise the S.C. Instructional TV & Radio Resources book for 1988-89.

9. Revise for 1988-89 the Curriculum Guide of ITV and audio resources related to meeting the Defined Minimum Program.

10. Develop or acquire and print lesson guides and student activity materials for use with ITV programs.

11. Develop and print quarterly the "Instructional Technology Newsletter."

12. Revise and print a 1988-89 guide for building coordinators.

(Resource Development)

13. Continue the development or revision of the following instructional television resources: WHERE ARE WE? (primary social studies), BSAP MATH ITV-GRADE 3, BSAP MATH ITV-GRADE 6, BSAP MATH ITV-GRADE 8, HOLIDAY SPECIALS, and S.C. GEOGRAPHY.

14. Assist other offices of the State Department of Education and other agencies in achieving their program goals by developing and scheduling programs for broadcast over the S.C. ETV Network.

15. Continue the production and scheduling of the monthly program, UPDATE: DEPARTMENT REPORT.

(Scheduling)

16. Assure that television programs are available for broadcast at scheduled times.

17. Schedule the S.C. ETV Network for delivery of the State Board-approved instructional television resources for 1988-89.

18. Schedule the S.C. ETV/ER Networks for delivery of the staff development programs for 1988-89.

(Utilization)

19. Implement a program of activities which will increase ITV usage in the public schools by accomplishing the following: (a) gain in new using schools - 10; (b) gain in individual student count - 10,000; (c) gain in series enrollment - 50,000.

20. Continue a program of activities which will provide assistance for access to audio instruction via broadcast or tape.

21. Provide 100-150 school in-service presentations for the purpose of improving quality and quantity of resource usage.

22. Provide information for the instructional technology building coordinators through district/regional workshops and individualized instruction to facilitate use of local and state resources by schools.

23. Provide instruction for videotape equipment operators in schools.

24. Increase and improve ITV reception in public schools through a plan of cooperative activities with the S.C. ETV Network and the Office of School Planning and Building, State Department of Education.

25. Provide undergraduate and graduate classes at institutions of higher education with information to effect an understanding and use of ITV and radio resources in South Carolina.

26. Promote the utilization of the ITV series: WHERE ARE WE?, PORTRAIT OF AMERICA, S.C. GEOGRAPHY, GLOBAL GEOGRAPHY, BSAP MATH ITV-GRADES 3, 6, 8; and TVO's single concept science series.

(Staff Development)

27. Develop and print the 1987-88 staff development monthly schedules.

28. Offer a program of SDE recertification and graduate-level courses.

29. Continue the identification, production, and promotion of ITV/radio staff development programs.

(Parent Education)

30. Schedule and promote parent-oriented educational programs for television and radio.

E. COMPUTERS

31. Revise advisory listing of BSAP-correlated software for reading, composition, math, and science for grades 1-8.

32. Obtain and house in the microcomputer lab at S.C. ETV and the five field offices preview materials pertaining to microcomputers and their use in teaching grades K-12.

33. Operate and maintain a microcomputer lab at S.C. ETV and a regional lab at each of the five Instructional Technology field offices.

34. Provide information, assistance, and workshops on the use of computers in teaching math, reading, composition, and science.

35. Review and recommend approval of applications for computer education courses for educators and monitor approved courses.

36. Conduct the annual microcomputer survey of schools.

37. Develop and disseminate microcomputer reports.

38. Develop and disseminate programs and print materials related to the office's mission of promoting the use instructional use of computers, as appropriate.

39. Continue an in-service program for staff in the use of microcomputers for instruction.

40. Continue the Software Evaluation Exchange Dissemination Project.

F. EVALUATION

41. Conduct an assessment of utilization based on the BEDS and ITV/Radio Utilization Survey.

42. Obtain and assess student evaluation of ITV resources that are (a) proposed for acquisition; (b) under development; (c) currently scheduled.

43. Obtain and assess teacher evaluation of ITV resources that are (a) proposed for acquisition; (b) under development; (c) currently scheduled.

G. DISSEMINATION

44. Disseminate the 1987-88 television and radio resources book.

45. Disseminate an audio teacher's guide.

46. Disseminate a curriculum guide for the use of 1987-88 ITV and radio resources in the Defined Minimum Program.

47. Disseminate a quarterly "Instructional Technology Newsletter" to public school personnel.

48. Disseminate a 1987-88 guide for building coordinators.

49. Disseminate lesson guides and student activity materials.

50. Disseminate a monthly staff development schedule to all schools.

51. Implement activities related to informational, promotional, and other instructional technology awareness thrusts of the office.

52. Develop and disseminate utilization reports.

53. Disseminate the 1986-87 Annual Report of the Office of Instructional Technology.

H. REPORTING

54. Prepare a progress report on the activities of the office for inclusion in the Annual Report of the State Superintendent of Education.

55. Prepare the 1987-88 Annual Report for the Office of Instructional Technology.

56. Develop an equipment inventory and a utilization report.

INSTRUCTIONAL TECHNOLOGY ADVISORY SYSTEM

In order to provide better lines of communication between the Office of Instructional Technology and those we serve in the schools, an advisory system is employed. This system has four components--12 curriculum committees for various curriculum areas, a principals' committee, an ITV building coordinators' committee, and a large state advisory committee that is representative of the first three components and includes others from the school community and the State Department of Education.

Appointments of the committee members are based upon their knowledge of the content areas and/or their use of ITV/R programs. The committees review new and existing ITV/R programs and the other services offered by the Office of Instructional Technology. Recommendations from each of the committees are presented to the state advisory committee.

The state advisory committee met twice in 1987-88 to formulate the recommendations for the 1988-89 instructional television schedule of programs.

OFFICE OF INSTRUCTIONAL TECHNOLOGY PUBLICATIONS

The Office of Instructional Technology uses printed materials to communicate information and to provide service to the public schools. The following is a list and description of the publications provided in quantity to the schools or are available upon request. All publications are free of charge to the public schools.

1. S.C. Instructional Television & Radio Resources book: Includes significant information about ITV/radio utilization, series telecasts, schedules, and series descriptions. A copy of this book is mailed to all teachers and administrators in August.

2. Staff Development Resources book: Includes valuable information about ITV/radio staff development and training opportunities for individuals and small or large groups. It includes broadcast schedules and lesson descriptions. A copy of this book is mailed along with the S.C. Instructional Television & Radio Resources book in August.

3. Curriculum Guide--ITV Resources in the Defined Minimum Program: Correlates all ITV resources with the curriculum requirements of the Defined Minimum Program. It is provided to the administrators and curriculum personnel of each district.

4. Instructional Audio Teacher's Guide: Contains all teacher lesson guide material relative to the use of individual radio series.

5. "Instructional Technology Newsletter": A quarterly publication which features special articles about microcomputers and ITV/radio utilization, and is distributed to all teachers and administrators.

6. A Primer for In-School Production: A booklet which provides brief guidelines on the essentials of making low-budget TV productions by faculty and students.

7. Instructional Television Building Coordinator's Guide: Provides a handy checklist of suggested services to assist teachers in the use of instructional television and radio throughout the school year.

8. Teacher and Student Lesson Guides for ITV Series: Each ITV series has a teacher's guide for series utilization. Several series are designed to use student worksheets or other materials, and these are provided either in a master copy or in quantity. During 1987-88, 63,803 teacher lesson guides, 28,937 student guides, and 7,559 staff development lesson guides were provided to schools.

9. Instructional Software BSAP Correlations for Language Arts, Mathematics, and Science, Grades 1-8: Provides information on grades 1-8 language arts, math, and science microcomputer software that has been correlated to the South Carolina BSAP Objectives.

10. Holiday Specials Calendar: Provides a listing and telecast schedule of holiday/Christmas specials broadcast during December of each year.

11. Office of Instructional Technology Staff Development Television Schedule: Distributed monthly, August through May. Contains a listing of broadcast staff development programs and their daily broadcast schedules, with special notes to teachers and ITV building coordinators.

12. Office of Instructional Technology Staff Development Radio Schedule: Distributed monthly, August through May. Contains a listing of broadcast staff development programs and their daily broadcast schedules, with special notes to teachers and ITV building coordinators.

13. PBS Video Catalog: Provides information on the programs that are available for use by schools in those districts that elect to pay a special access fee.

COMPUTER-ASSISTED INSTRUCTION (CAI)

Primary activities for the year have included revising BSAP-correlated language arts, math, and science computer software advisory listings; providing workshops on the effective use of this software; and conducting the third statewide computer survey.

Other computer-related support activities included planning, operating six computer labs, scheduling computer training and informational staff development programs over the S.C. ETV and Radio Networks, providing presentations at state education conferences, and serving as the point of contact for information requests on CAI from both in-state and out-of-state educators and agencies.

Throughout the year, the office was involved in the second year implementation of a multi-state pilot project on software evaluation called SEED (Software Evaluation Exchange Dissemination), sponsored by the Southeastern Educational Improvement Laboratory (SEIL).

The fourth statewide computer survey also shows that:

- the total number of computers in K-12 schools was 29,766.
- 1,074 schools (or 97 percent) in 92 school districts (or 100 percent) had computers.
- the total number of printers in K-12 schools was 8,966.
- 25,458 computers in schools were used for instruction, while 2,327 were used for administration, and 1,962 were used for both.

A microcomputer lab containing a variety of microcomputers, software, and a library of publications and other materials continued to assist educators at the S.C. ETV Network. This lab was used by educators to examine hardware and software, and to do research in the use of microcomputers in instruction. The lab was operated by staff from the Resource Development Section. "Mini-labs" served local educators from each of the five utilization field offices.

The total staff conducted 35 workshops; participated in 27 training sessions, conferences, and seminars; and made 11 presentations at meetings and conferences.

The Office of Instructional Technology has two sections, Resource Development and Utilization. A summary of the work of these two sections for the past year follows.

RESOURCE DEVELOPMENT SECTION

Reta Richardson, Chief Supervisor

The Resource Development Section develops and recommends for acquisition television and radio resources. As part of the process, visits are made to classrooms to observe how resources are conducted, how workshops are held, and how in-service programs are presented.

TELEVISION RESOURCES

Twenty-four series were deleted from the 1986-87 schedule and 21 were added, thus making available 191 series. These contained 3,389 individual lessons which, on a single telecast basis, represented 1,093.45 hours of instructional television broadcast into South Carolina public schools. Each series was broadcast a number of times during the year. This is the most comprehensive instructional television schedule of any state educational network in the country.

LOCALLY PRODUCED SERIES, 1987-88

The Resource Development Section completed production of SOUTH CAROLINA GEOGRAPHY, WHERE ARE WE?, and BSAP MATH ITV-GRADE 8. Lessons in these series were produced under the direction of three instructional specialists. A brief description of these three series follows.

SOUTH CAROLINA GEOGRAPHY

This series responds to the specific needs of middle and junior high schools for instructional resources in teaching the geography of the state. The programs provide for in-depth study of the state's regions as the Guidelines for Geographic Education are applied. Daniel H. Pipes, instructional specialist, produced the series.

WHERE ARE WE?

The primary-grade geography series teaches map and globe skills and geography concepts that second-, third-, and fourth-graders need to know. The concepts and skills are also presented in a direct teaching approach using eye-catching visuals and high-technology production techniques. Dr. Sandra G. Thomas, instructional specialist, produced the series.

BSAP MATH ITV-GRADE 8

This package of 14 programs selected from other ITV series focuses on the five most difficult subskills at grade 8 according to the State Department of Education's analysis of the Joe Ryan Report. Dr. Ryan's report was based on data from the Basic Skills Assessment Program during 1981-84. A special learning module complements this series to strengthen students' learning of the subskills. Arletta Raley, instructional specialist, produced the series.

HOLIDAY SPECIALS, and UNDERSTANDING TAXES were revised.

The following programs were produced for in-school use.

Series	Number Completed
SOUTH CAROLINA GEOGRAPHY	7
WHERE ARE WE?	6
BSAP MATH ITV-GRADE 8	7
HOLIDAY SPECIALS	2
Total	22

LOCALLY EDITED/REPACKAGED SERIES

To accommodate instructional and curriculum needs, some acquired series require editing and/or repackaging before they can be telecast to schools over the S.C. ETV Network. Four new programs in the NATIONAL GEOGRAPHIC SPECIALS were edited into two parts each, and 14 short segments depicting career clusters were combined into five lessons for the PICKING YOUR PATH series used in grades 3-6.

NEW TELEVISION SERIES

Language Arts

MORE BOOKS FROM COVER TO COVER
Grades 5-6
16 programs; 15 minutes

Each program in this reading motivation series hosted by John Robbins introduces one or two books. Titles include books of humor, mystery, adventure, the real and the fanciful, written by authors in the United States, Canada, and Great Britain. The standard format of the COVER TO COVER series continues as the students hear and see the stories up to a crucial point and are then left to find the books and read them for the endings.

Mathematics

BSAP MATH ITV-GRADE 3
Grade 3
27 lessons; 15 minutes

This package of televised learning resources focuses on the five most difficult subskills at grade 3 according to the State Department of Education's analysis of the Joe Ryan Report, the data of which was based on the Basic Skills Assessment program during 1981-84.

The subskills that are addressed in this series are: (1) establishing relationships, (2) division, (3) operations and conversions, (4) subtraction, and (5) problem solving. The first 24 programs have been selected from other ITV series. The learning module will be produced to further strengthen the students' learning of the subskills. The programs are to be recorded as they are broadcast for teachers to use when they are teaching each subskill.

BSAP MATH ITV-GRADE 6
Grade 6
19 lessons; 15 minutes

This package of televised learning resources focuses on the five most difficult subskills at grade 6 according to the State Department of Education's analysis of the Joe Ryan Report, the data of which was based on the Basic Skills Assessment Program during 1981-84. The subskills that are addressed in this series are: (1) conversions and operations, (2) application, (3) place value, (4) division, and (5) establishing relationships. The first 15 programs have been selected from other ITV series. The learning module will be produced to further strengthen students' learning of the subskills. The programs are to be recorded as they are broadcast for teachers to use when they are teaching each subskill.

BSAP MATH ITV-GRADE 8
Grade 8
21 lessons; 15 minutes

This package of televised learning resources focuses on the five most difficult subskills at grade 8 according to the State Department of Education's analysis of the Joe Ryan Report, the data of which was based on the Basic Skills Assessment Program during 1981-84. The subskills that are addressed in this series are: (1) identifying equivalencies, (2) establishing relationships, (3) applications, (4) conversions and operations, and (5) division. Fourteen programs have been selected from other ITV series. A special learning module will be produced for distribution next year to further strengthen the students' learning of the subskills. The programs are to be recorded as they are broadcast for teachers to use when they are teaching each subskill.

Science

EXXON ENERGY CUBE
Grades 7-12
9 lessons; 10-21 minutes

The programs in this series may be selectively used in high school courses where energy is studied. Topics include: Energy and Physics, Energy and Earth Science, Energy and Biology, Energy and Chemistry, Energy and Society, and Energy and Science. The two introductory programs help to teach about petroleum and other fuels and "supplemental" energy sources.

ELECTRICITY
Grades 11-12
6 lessons; 10 minutes

ELECTRICITY explains the fundamentals of electrostatics and current electricity and helps students formulate mental images of abstract concepts. The first three programs on electrostatics explain the charging of objects by contact and induction. The concluding three on current electricity illustrate such concepts as electrical charge, potential difference, and resistance.

ELECTROCHEMISTRY
Grades 11-12
6 lessons; 10 minutes

ELECTROCHEMISTRY begins by taking students inside the common, everyday battery and explaining the basic principles involved. It then illustrates the terminology and processes of electrochemical relations, how half-cell potentials can be determined, and how electrochemistry is at work in the commercial Leclanche cell, as well as the process of corrosion and electrolysis.

NUCLEAR PHYSICS
Grades 11-12
6 lessons; 10 minutes

NUCLEAR PHYSICS shows, step by step, how an interest in cathode rays led scientists to discover X-rays, then alpha, beta, and gamma radiation, and finally to explore the conversion of matter into energy. Vivid computer animation and narration help clarify such concepts as nuclear fission and fusion, give students a straightforward explanation of how a nuclear reactor works, and examine the difficulties created by nuclear waste products.

ORGANIC EVOLUTION
Grades 11-12
6 lessons; 10 minutes

ORGANIC EVOLUTION traces the development of various theories of evolution. It begins with the Biblical account of creation, then goes on to discuss Darwin, Mendel, the Harty-Weinberg law, and more. Like the study of evolution itself, the series is syncretic-it ties together the microscopic and macroscopic, genetics and heredity, cell reproduction and breeding populations.

Social Studies

WHERE ARE WE?
Grades 2-4
6 lessons; 15 minutes

This primary-grade geography series teaches map and globe skills and geography concepts that second-, third-, and fourth-graders need to know. A group of children and their friend, Spaniel Boone, find themselves in different situations where they need to know and use geography concepts and map and globe skills. These concepts and skills are also presented in a direct teaching approach using eye-catching visuals and high-technology production techniques.

GLOBAL GEOGRAPHY
Grades 6-9
10 lessons; 15 minutes

The content of this series is based on the five fundamental themes of geography described in the Guidelines of Geographic Education: location, place, relationships within places, movement, and regions. These themes reflect the basic ideas and concepts used in global geography studies. Case studies from Asia, the U.S.S.R., Africa, Central and South America, Europe, and Australia focus students' learning about current issues related to the themes.

SOUTH CAROLINA GEOGRAPHY
Grades 6-9
7 lessons; 20 minutes

This series responds to the specific needs of middle and junior high schools for instructional resources in teaching the geography of our state. The programs provide an in-depth study of the state's regions as the Guidelines for Geographic Education are applied.

THE AMERICAN FRONTIER II
Grades 6-12
20 lessons; 4-9 minutes

THE AMERICAN FRONTIER II is a set of 20 television vignettes depicting the colorful people, places, events, and legends of the Old West. Co-hosted by Charlie Jones and Merlin Olsen , THE AMERICAN FRONTIER II is shot on location in the West. Based on historical research presented in an interesting, concise format, each lesson is designed to teach something new about the history of our country and its pioneer people.

Art and Music

THE BIG A
Grades 1-3
10 lessons; 15 minutes

These programs are designed to assist children as they explore concepts in art history, criticism, aesthetics, and studio art. The series is intended for use by classroom teachers, art teachers, and teachers-in-training.

Physical Education, Health and Safety

BEFORE THE STORM
Grades 7-12
6 lessons; 10 minutes

Everyone living in an area where a hurricane can occur should be prepared to take whatever action is necessary to protect life and property when the storm strikes. Suitable for adults as well as students, this series teaches how to plan for preparedness. It was produced by S.C. ETV for the S.C. Coastal Council, in consultation with the National Weather Service, the Council's hurricane videos council, and other agencies.

Vocational and Career Education

PICKING YOUR PATH
Grades 3-6
5 lessons; 10 minutes

This series of short introductions to the 14 basic career clusters serves as a springboard for the discussion of various careers that students may pursue. Teachers will find these programs valuable resources in helping students pursue their interests so that they develop skills and knowledge in paths that appeal to them for possible career development.

AND SEW ON
Grades 7-12
15 lessons; 15 minutes

Styles change frequently and rapidly, and often teenagers are on the leading edge of that change. Shirley Adams, the series instructor, teaches girls and boys how to maintain that edge by demonstrating basic techniques for making clothes and accessories and for altering clothes to fit styles, body types, and social situations. Instruction is clear and accurate and full of tips and tricks that can make the difference between an amateurish and a professional effect.

CAREER PLANNING
Grades 9-12
6 lessons; 15 minutes

This series is designed to provide students with the skills and strategies needed for choosing a career. The series, presented in a dramatized format, follows the efforts of three high school students as they decide upon their future occupations. Each student deals with parental and peer pressures, the pressures of a tough job market, and the need for self-analysis. The three students are aided in their search by guidance counselors who help them discover successful tools and techniques of finding suitable employment.

KEYS TO THE OFFICE
Grades 9-12
8 lessons; 15 minutes

This series aids teachers in preparing students to make the transition from the classroom to the world of business. It identifies and demonstrates basic business skills, concepts, and attitudes that are essential to the attainment of success in the modern business environment. The series encourages the acquisition of business skills, such as effective speaking, clear writing, time management, effective face-to-face communication, and decision-making. Each program explores a different business skill through the use of documentary footage, animation, dramatized vignettes, and interviews with business consultants.

WORLD OF WORK
Grades 9-12
2 programs; 60 minutes

"Is technology stealing your job?" "Where will you work tomorrow?" WORLD OF WORK provides valuable information and insights into the impact of rapidly developing technologies which affect how we work, where we work, and the kind of work we do. It is predicted that today's teenagers could have three different careers during their working life. Lifelong learning is taking on new meaning as accelerating changes affect our careers.

ITV SERIES EVALUATION

The evaluation of ITV/R programs is an essential component of the process employed for the development and use of these programs. The evaluation system has two parts, formative and summative.

FORMATIVE: The staff evaluated 20 programs from series in production with students and teachers in seven classrooms and with advisory committees. Other evaluation techniques included sending scripts and completed ITV programs to administrators and consultants in the State Department of Education and to teachers and college professors for review, and using programs to teach groups of teachers and students. A survey was made of 260 schools to ascertain their capabilities of receiving and recording the broadcasts of the BSAP MATH ITV series for grades 6 and 8. Series under consideration for adoption were evaluated by 12,500 teachers, administrators, and students.

SUMMATIVE: The Instructional Technology curriculum and state advisory committees evaluated 1987-88 resources through committee meetings. There were 1,200 educators involved in this evaluation. These committees provide guidance as to whether or not our resources are accomplishing the objectives for which they were designed and whether or not they need revision. Other summative evaluation activities were submitting programs in competition and securing evaluations of programs used by other agencies in other states.

WORKSHOPS CONDUCTED

Section staff members conducted 12 workshops and classroom presentations pertaining to series in production or content area, with over 530 teachers in attendance. Planning and production activities for 123 new programs were coordinated by the department for use in workshops and for telecast over the S.C. ETV Network.

STATE DEPARTMENT OF EDUCATION OBJECTIVES

During 1987-88, the State Department of Education used television extensively to help achieve its goals and objectives. The chief supervisor of Resource Development and the production specialist coordinated the planning, production, and scheduling of activities for the 34 new staff development television programs and 12 new staff development television series produced for use in workshops and for telecast over the S.C. ETV Network. These programs were:

ITV Staff Development--New Single Programs (34)

"About Income/Outcome$"
"Administrators' View: Continuous Assessment"
"Adult Education Video Newsletter"
"Automated Management Systems for the School Library"
"Better Baked Products in School"
"Building Children's Self-Confidence"
"Career Education--A Family Affair"
"Children AD 2000"
"Community Partnerships and Effective Schools"
"Dr. Madeline Hunter: Tom Chappelear Lecture"
"Efficacy in Evaluation"
"Excerpts of 1987-88 New ITV Series"
"Excerpts of 1988-89 New ITV Series"
"Foundations of Lifelong Learning"
"Frequent Monitoring of Student Progress"
"Higher Education's Responsibilities for Effective Schools"
"How To Handle Controversial Meetings"
"ITV Staff Development Overview"
"Lean on Me!"
"Newscasts from the Past--Overview"
"Nutrition: Dietary Guidelines"
"Please Listen to What I'm Not Saying"
"Policies of Today That Will Impact on Tomorrow"
"Problems of an Effective Secondary School"
"Recognizing & Honoring Effective Schools"
"Renaissance Two: Computer Art Programs"
"S.C. Program for 4-Year-Olds: Regulations"
"School Incentive Reward Program 1987-88"
"School Performance Reports"
"SIPTEL Standards Implementation Project"
"Solving the Problem of Math Problem Solving"
"The Disappearance of Childhood"
"Welcome Back to School"
"What's in the News--Utilization"

ITV Staff Development--New Series (12)

COACHING FOR IMPROVED TEACHING
COMPUTER ACROSS THE CURRICULUM
DIMENSIONS OF CHILD DEVELOPMENT
FOCUS ON EDUCATION
I'M SPECIAL
MATHEMATICS IN-SERVICE
PROFESSIONAL DEVELOPMENT OF TEACHERS
S.C. CHILDREN'S & YOUNG ADULTS' BOOK AWARDS
S.C. HISTORY FOR TEACHERS
UPDATE: DEPARTMENT REPORT
UPDATE: MUSIC EDUCATION
TEACHING THINKING SKILLS

Total new single staff development television programs and series: 131

INSTRUCTIONAL RADIO RESOURCES

Identified for adoption were 52 radio series totaling 961 programs and 258 hours of instruction. These series were provided on tape to requesting schools.

During 1987-88, the State Department of Education used radio to help achieve its goals and objectives by producing programs for use in workshops and for broadcast over the S.C. Educational Radio Network. These programs were:

Instructional Radio Staff Development--New Programs (10)

"Career Education--A Family Affair"
"Children AD 2000"
"Community Partnerships and Effective Schools"
"Effective Schools Research and Practice"
"Higher Education's Responsibilities"
"How To Handle Controversial Meetings"
"Motivating Teachers and Students"
"Plato/WICAT Presentation"
"Please Listen to What I'm Not Saying"
"Policies of Today That Will Impact on Tomorrow"

Instructional Radio Staff Development--New Series (2)

GIVE A CHILD A BOOK
UPDATE: ADULT EDUCATION

Total new single staff development radio programs and series: 23

UTILIZATION SECTION
Robert W. Reese, Chief Supervisor

The Utilization Section consists of a chief supervisor, five utilization consultants, and secretarial/clerical staff. The section provides a very active program of services to improve the quality and quantity of utilization and to expand reception. These services, plus the addition of new and revised ITV resources, the services of school building coordinators, and reception improvement, provided by the S.C. ETV Network, resulted in substantial utilization growth.

UTILIZATION SECTION STAFF MEMBERS

The names, office locations, and geographical areas served by the utilization consultants are:

Utilization Consultant	**Field Office**
Kathy D. Plumley	Rock Hill
Judy S. Brasington	Charleston
Audrey B. Eddy	Spartanburg
Nicholas V. Martin	Blackville
Dorothy L. Owen	Florence

MAJOR ACCOMPLISHMENTS OF STATE DEPARTMENT OF EDUCATION OBJECTIVES

A total of 149 teacher in-services and 27 building coordinator workshops were provided.

1. In-service and Training

	Accomplished: 1987-88	1986-87
Training of VTR Operators	89%	90%
New ITV Bldg. Coord. Orientation	89%	93%
In-services/Workshops		
Schools	115	146
College Workshops	16	18
District In-Services	6	3
Others	12	12
Totals	149	179

2. Utilization

ITV:		
New Using Schools	+ 24	+ 17
Total Series Usage	+ 3%	+ 12%
Individual Students Viewing	+ 3%	+ 6%

3. Summary of Utilization Services Provided

The Utilization Section scheduled consultant services to meet the major service needs of districts and schools. A summary of the major services follow.

	1987-88	1986-87	1985-86
ITV/Radio Building Coordinators			
Appointed	1,053	1,017	1,050
Trained during fall workshops	611	488	508
Trained by individual school visits	60	85	84
VTR Operators Trained	162	87	119
In-Service Presentations			
Number given	149	179	183
Teachers attending	4,127	4,992	5,105
Schools given in-service	108	157	179

3. Summary of Utilization Services Provided (continued)

	1987-88	1986-87	1985-86
School Visited	387	404	409
School and Administrative Office Visits	910	942	1,080
Superintendents Visited	61	58	69
Conferences with School Administrators	281	318	356
College Classroom Presentations	16	18	15
Civic or Non-school Presentations	-	-	1

4. Television Network Expansions

Throughout the school year, S.C. ETV's Division of Field Technical Services maintained ITFS* service and building distribution systems (BDS) and installed outlets. ETV installed 26 BDSs during 1987-88.

A. Summary of BDS and additional classroom outlets installed by S.C. ETV:

	1987-88	1986-87	1985-86
1. BDS's Installed	26	20	37
2. BDS Outlets	1,043	753	1,349
3. Minor Projects			
(a) No. of Locations	126	229	209
(b) Total Outlets	553	687	1,130
4. Total Outlets Installed	1,596	1,440	2,479
B. Total No. of Classroom Outlets as of June 30, 1988	34,348	36,689	28,895

*ITFS: Instructional Television Fixed Service.

4. Television Network Expansions (continued)

	1987-88	1986-87	1985-86
C. Total BDSs in schools as of June 30, 1988			
1. ITFS Schools	358	380	364
2. Open-Circuit Schools	543	518	481
3. School Administrative Offices	39	41	41
4. Taping Centers	14	-	-

5. School Reception Equipment Purchases

The availability of TV and recording equipment for instruction increased by the following amounts and percentages.

	1987-88	
TV Sets:		
• Net Change in B/W and Color Sets	1,499	(10%)
• Net Change in Color Sets	2,418	(20%)
VTRs	388	(16%)

6. Computer Education Utilization Activities

Now in its fifth year of providing computer services to schools, the office participated in the second year of a six-state cooperative project for software evaluation, called SEED (Software Evaluation Exchange Dissemination). A statewide survey was completed and two presentations on computer use in instruction were given at statewide educational conferences.

In cooperation with the Office of General Education, the office reviewed computer course applications for approval. Forty-four courses on introduction to computers and computer applications were funded, serving a total of 1,020 teachers at an expenditure of $219,200.

6. Computer Education Utilization Activities (continued)

The staff of the Utilization Section provided a substantial amount of assistance directly to school districts and schools, as given below.

	1987-88
A. School Assistance Visits	
Number of School Visits	184
Number of Schools Visited	106
Total Administrative Visits	46
Total Number of Visits to Schools and Administrative Offices	168
B. Computer Workshops	
Number of Workshops	20
Attendance	318
C. General Presentations on Computer Education	
Number of Presentations	2

7. Computer Software Evaluation Project (SEED)

The office participated in the second year of the Software Evaluation Exchange dissemination (SEED) project, sponsored by the Southeastern Educational Improvement Laboratory (SEIL) of Raleigh, N.C. Participating states included Georgia, Florida, Alabama, South Carolina, and Mississippi. The office staff served on the SEED task force, participated in a "tracer" study of SEED for SEIL, conducted 15 software evaluators' workshops, and administered the project which produced 90 completed evaluations. Other data on the year's evaluations are as follows.

1987-88
South Carolina SEED Software Evaluations

1.	Titles Reviewed		90
2.	Titles with Annotations Completed		51
3.	Number of Workshops		15
4.	Evaluators Trained		
	Attendance	95	
	Trained Individually	11	
	Total Evaluators Trained	106	

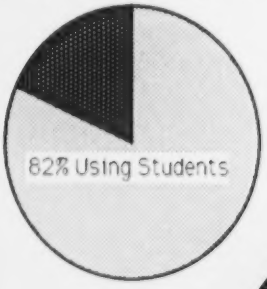
Two hundred and seventy-three evaluations from the SEED project were printed and distributed to educators, totaling 394 annotations distributed to date. The project was successful in accomplishing the major objectives of increasing the number and quality of software evaluations available to our educators and increasing the expertise of staff and evaluators in software evaluation.

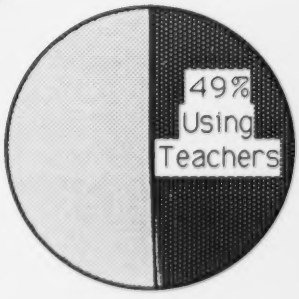
ITV AND RADIO UTILIZATION

The annual statewide utilization survey of ITV and radio usage and equipment provided data on the usage of ITV/radio resources and growth in local reception. This data is used to manage delivery of consultant services, to schedule resources over the S.C. ETV and S.C. ERN Networks, to improve local reception, and to place TV and radio sets where they are most needed. This information is given to local districts and schools to assist in budgeting for purchases, equipment maintenance, transfer of unused sets within districts, and retirement of equipment that is not repairable.

INSTRUCTIONAL TELEVISION (ITV)

The state's schools were served by 11 ETV stations, which broadcast ITV programming to grades K-6 on open-circuit, by the closed-circuit/ITFS systems serving grades 7 and up (only 38 percent of these schools and school facilities receive full ITFS service), and by ETV tape delivery. ITV was used in these ways by:





Television Usage	1987-88	1986-87	1985-86
Schools	1,052	1,042	1,031
Districts	92	92	91
Individual Students Viewing	506,010	491,356	464,586
Total Series Usage	2,949,701	2,870,422	2,331,464
Teachers Using	18,754	17,806	16,496
Classes	135,903	130,304	117,390
TV Sets *	16,752	15,253	13,737
Videotape Machines *	2,770	2,382	1,842
TV Sets			
Total	18,942	17,488	15,458
Used for Instruction	16,752	15,253	13,737
Videotape Machines			
Total	3,391	3,156	2,170
Used for Instruction	2,770	2,382	1,842

* *Used for instruction.*

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES 87-88	86-87	85-86	TEACHERS USING SERIES 87-88	86-87	85-86	CLASSES USING ITV 87-88	86-87	85-86
LANGUAGE ARTS											
ABOUT BOOKS: INTERMEDIATE	4-6	82	12,036	11,347	11,589	319	313	357	584	514	543
ABOUT BOOKS: PRIMARY	1-3	42	23,121	19,993	18,570	875	729	810	1,112	942	916
BEST OF COVER TO COVER I, THE	4-6	45	21,147	18,135	18,780	714	607	666	1,021	846	911
BEST OF COVER TO COVER II, THE	4-6	33	27,033	23,772	24,426	754	668	759	1,265	1,073	1,127
BOOK BIRD, THE	4	63	14,845	17,038	16,627	508	566	545	684	743	755
CURSIVE HANDWRITING A	2-3	32	27,190	23,783	21,264	1,238	1,072	987	1,304	1,166	1,051
CURSIVE HANDWRITING B	2-3	83	11,861	10,098	9,762	498	457	453	552	486	492
FINS, FEATHERS AND FUR	1-3	67	14,521	13,379	-	676	626	-	697	655	-
GATHER ROUND	1-3	4	55,388	58,476	53,358	2,227	2,217	2,106	2,662	2,791	2,572
GRAMMAR SKILLS	9-12	111	7,993	4,708	-	152	97	-	410	234	-
HUMANITIES	9-12	47	20,396	18,992	18,027	312	315	294	913	859	814
IN OTHER WORDS	7-8	154	5,098	3,610	2,226	85	66	56	227	152	109
LETTER PEOPLE, THE	1	6	54,227	51,953	50,928	2,234	2,121	2,081	2,604	2,513	2,525
MATTER OF FACT, A	7-10	131	6,326	8,812	7,661	128	153	150	320	429	351
MATTER OF FICTION, A	7-8	79	12,341	13,367	13,442	218	250	276	601	653	670
MORE BOOKS FROM COVER TO COVER	5-6	46	20,912	-	-	487	-	-	989	-	-
NOVEL, THE	9-12	85	11,432	12,279	-	192	185	-	539	588	-
OUR LIVING LANGUAGE	4-6	64	14,819	14,458	14,593	426	435	276	681	656	677
READ ALL ABOUT IT I	4-6	56	16,290	18,140	16,309	641	680	613	830	860	784
READ ALL ABOUT IT II	4-6	70	13,896	16,174	12,679	492	582	483	662	758	611
READALONG 1	1	40	23,700	25,383	21,210	1,171	1,168	1,019	1,216	1,290	1,100
READALONG 2	2	77	12,393	13,104	11,227	584	584	543	616	667	580
READING RAINBOW	2-5	1	119,044	97,687	76,419	4,933	3,877	3,162	5,677	4,690	3,669
READIT	3	90	10,933	11,975	9,663	423	462	396	523	554	461
SHORT STORY, THE	7-12	11	43,746	43,068	42,643	726	694	688	2,095	1,997	2,015
SHORT STORY SHOWCASE	11-12	8	47,829	46,093	46,099	733	680	694	2,267	2,128	2,100
SPEAKEASY	6-12	183	1,562	2,067	1,578	40	44	39	82	103	86

* SERIES RANK: Based on number of using students.

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
LANGUAGE ARTS (continued)											
STORYBOUND	4-6	38	24,144	23,354	22,731	620	602	616	1,149	1,073	1,055
TELETALES	K-3	34	26,133	24,423	7,139	1,050	950	256	1,254	1,186	325
THINKABOUT	5-6	92	10,451	10,658	11,416	366	385	382	510	511	550
TOMES & TALISMANS	5-6	14	40.031	40,120	25,876	665	630	368	1,800	1,818	1,138
WATCH YOUR LANGUAGE	7-12	116	7,190	4,706	5,333	135	94	104	367	246	278
WORDSMITH, THE	5-8	53	16,753	15,061	13,012	402	380	328	855	717	652
WRITE CHANNEL, THE	3-4	69	14,045	12,771	12,564	531	508	525	636	579	587
WRITER'S REALM	4-6	149	5,315	5,207	-	140	139	-	-	227	233
WRITING FOR A REASON	12	122	6,738	5,991	6,304	139	117	116	326	271	300
YOU CAN WRITE ANYTHING	3-6	98	9,729	8,238	6,277	338	281	226	452	374	296
ZEBRA WINGS	5-8	95	10,218	8,809	8,087	243	226	220	462	398	377
FOREIGN LANGUAGE											
ENSEMBLE	9-12	124	6,651	8,534	-	117	130	-	317	387	-
GUTEN TAG	10-11	188	1,026	1,082	609	36	17	16	57	43	29
GUTEN TAG, WIE GEHT'S	10-12	194	525	273	266	19	11	8	30	16	13
ZARABANDA	9-12	151	5,278	6,866	3,287	93	106	56	236	287	137
MATHEMATICS											
BSAP MATH ITV-GRADE 3	3	80	12,298	-	-	509	-	-	601	-	-
BSAP MATH ITV-GRADE 6	6	65	14,640	-	-	328	-	-	724	-	-
BSAP MATH ITV-GRADE 8	8	60	15,723	-	-	277	-	-	784	-	-
IT FIGURES	4	75	12,653	11,349	9,712	455	426	368	610	550	485
LANDSCAPE OF GEOMETRY	8-10	100	9,500	8,092	6,938	152	133	113	441	373	310
MATH CYCLE	3	87	11,228	9,970	7,555	457	444	354	540	538	407
MATHMAKERS II	4-6	102	9,216	6,551	6,227	279	202	188	448	308	294
MATH MATTERS	5-8	186	1,171	10,598	10,981	19	226	227	60	519	547
MATH PATROL II	2	41	23,234	18,219	18,051	1,026	838	839	1,115	380	927

* SERIES RANK: Based on number of using students.

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
MATHEMATICS(continued)											
MATH PATROL III	3-5	101	9,347	7,123	7,376	348	311	310	446	359	366
MATH SKILLS	9-12	134	6,124	2,889	-	137	84	-	334	162	-
MATH WORKS	5	99	9,521	6,331	5,532	242	180	142	467	321	279
MATHEMATICS AT WORK IN SOCIETY	8-12	147	5,487	5,558	5,038	90	90	85	256	279	223
MEASUREMETRIC	4-6	71	13,633	8,662	5,943	316	209	153	632	436	284
METRIC SYSTEM, THE	5-8	174	2,786	20,443	19,577	31	371	358	116	943	864
READING APPROACH TO MATH, A	7-12	126	6,543	5,409	5,670	112	97	110	346	288	302
TWO PLUS YOU (MATH PATROL I)	1	59	15,944	16,890	16,070	752	806	765	789	844	805
SCIENCE											
3-2-1 CONTACT	4-6	10	44,567	33,287	25,065	1,403	1,062	827	1,965	1,433	1,085
ABOUT SCIENCE	7-12	72	13,526	9,856	10,372	318	208	198	620	437	434
ALL ABOUT YOU	2-3	5	54,950	52,187	48,953	2,492	2,354	2,201	2,611	2,480	2,375
ANIMALS & SUCH	3-4	43	22,050	21,570	19,590	866	823	795	1,017	984	909
ATOMS & MOLECULES	5-6	50	17,436	18,333	13,196	287	291	230	753	763	552
BIOLOGY & ECOLOGY	9-12	20	35,750	33,124	33,349	460	409	424	1,558	1,372	1,379
CHEMICAL EQUILIBRIUM	11-12	167	3,761	3,208	-	63	57	-	163	146	-
COMMUNITY OF LIVING THINGS, THE	7	84	11,717	13,014	12,111	222	219	238	514	552	542
DIMENSIONS IN SCIENCE: CHEMISTRY	10-12	93	10,402	9,618	10,628	141	135	138	453	406	440
DIMENSIONS IN SCIENCE: PHYSICS	9-12	146	5,525	4,813	5,409	107	97	110	269	221	250
DRAGONS, WAGONS & WAX	1-3	9	45,446	41,661	97,096	2,058	1,908	1,733	2,170	2,278	1,809
EARTH SCIENCE	8	35	26,023	23,543	24,279	420	370	395	1,132	1,018	1,012

* SERIES RANK: Based on number of using students.

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES 87-88	86-87	85-86	TEACHERS USING SERIES 87-88	86-87	85-86	CLASSES USING ITV 87-88	86-87	85-86
SCIENCE (continued)											
ELECTRICITY	11-12	142	5,823	-	-	114	-	-	267	-	-
ELECTROCHEMISTRY	11-12	180	1,893	-	-	35	-	-	95	-	-
ELECTRON ARRANGEMENT & CHEMICAL BONDING	11-12	120	6,875	6,968	-	108	102	-	295	289	-
ENERGY FLOW	10-12	160	4,320	6,525	2,388	69	57	44	216	154	12
ENVIRONMENTAL STUDIES	9-12	112	7,960	4,113	5,088	117	65	68	351	176	209
EXXON ENERGY CUBE	7-12	138	5,973	-	-	77	-	-	257	-	-
FEATHERBY'S FABLES	1-2	44	21,173	17,872	14,791	985	841	702	1,012	872	733
HOMEOSTASIS	10-12	164	4,105	4,732	3,062	69	70	48	180	207	126
HUMAN COMMUNITY, THE	6-10	135	6,040	6,565	6,159	91	111	107	258	278	263
INTRODUCING BIOLOGY	10-12	19	35,793	35,902	29,600	443	442	364	1,523	1,481	1,220
LIFE SCIENCE	7	37	24,452	24,943	19,741	395	396	305	1,058	1,031	823
NATURAL SCIENCE SPECIALS	8	74	13,378	19,099	14,152	207	234	264	589	773	6,522
NATURESCENE	6-10	22	34,365	21,283	23,704	789	513	513	1,569	990	1,022
NUCLEAR PHYSICS	11-12	178	2,109	-	-	41	-	-	97	-	-
ORGANIC EVOLUTION	11-12	182	1,713	-	-	33	-	-	79	-	-
PASS IT ALONG	4-5	193	538	576	584	22	16	18	29	29	26
PHYSICAL SCIENCE	9	51	17,393	17,575	16,183	251	259	228	728	719	651
PROTEIN SYNTHESIS	11-12	143	5,800	6,036	-	99	85	-	251	249	-
SEARCH FOR SOLUTIONS	9-12	89	11,005	10,671	12,779	119	122	144	447	444	500
START HERE: ADVENTURES IN SCIENCE	4-7	73	13,411	12,926	11,099	350	292	246	555	530	456
STRUCTURE OF THE ATOM	11-12	106	8,930	9,901	-	133	158	-	387	425	-
UNIVERSE & I, THE	8	68	14,145	15,688	11,822	184	210	148	603	654	471
UP CLOSE & NATURAL	1-4	12	43,225	37,922	34,064	1,923	1,649	1,496	2,022	1,771	1,627
VOYAGE OF THE MIMI	3-7	97	10,065	14,274	14,391	247	420	421	442	640	637
WAVE PARTICLE DUALITY	10-12	176	2,479	3,477	1,711	57	68	37	117	162	82
WHATABOUT	7-8	94	10,305	7,053	4,960	134	83	59	434	280	193

* SERIES RANK: Based on number of using students.

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
SCIENCE (continued)											
WHAT ON EARTH?	8	58	15,950	16,909	13,689	237	245	199	695	713	568
SOCIAL STUDIES											
ACROSS CULTURES	6-7	86	11,403	11,397	13,064	224	214	249	505	476	552
AMERICA	9-12	66	14,522	17,418	15,733	243	243	216	607	707	622
AMERICA COUNTS	4-12	171	3,158	3,480	4,845	58	61	77	133	145	198
AMERICAN ENTERPRISE	11-12	141	5,825	8,166	7,995	83	104	106	237	320	324
AMERICAN FRONTIER I, THE	6-12	128	6,466	5,344	4,448	135	108	88	279	224	201
AMERICAN FRONTIER II, THE	6-12	155	4,984	-	-	86	-	-	210	-	-
AMERICAN LEGACY	5-6	103	9,178	7,091	6,183	245	187	163	401	304	257
CLYDE FROG SHOW, THE	1	27	31,648	29,095	27,083	1,427	1,276	1,170	1,545	1,443	1,318
EQUAL JUSTICE UNDER THE LAW	10-12	76	12,571	9,787	10,063	177	146	146	515	400	414
FINDING OUR WAY	4-8	48	20,345	21,133	19,371	438	487	428	856	885	791
GETTIN' TO KNOW ME	4-8	107	8,739	8,274	8,365	266	255	275	461	4,633	436
GIVE & TAKE	8-12	96	10,136	9,931	10,160	161	153	149	436	408	418
GLOBAL GEOGRAPHY	6-9	54	16,631	-	-	241	-	-	678	-	-
GROWING UP/GROWING OLDER	3-6	181	1,887	1,709	2,005	72	80	86	100	97	99
HARRIET'S MAGIC HATS	K-3	18	36,659	26,964	25,422	1,645	1,235	1,167	1,763	1,326	1,521
IT'S A RAINBOW WORLD	K-1	24	31,981	31,456	31,047	1,359	1,271	1,287	1,526	1,500	1,485
MAKING GOVERNMENT WORK	11-12	52	17,365	16,663	13,618	244	254	202	699	872	553
NATIONAL GEOGRAPHIC SPECIALS	5-12	3	60,922	46,849	-	1,005	855	-	2,670	2,035	-
NEWSCAST FROM THE PAST	9-12	123	6,694	5,553	3,706	110	90	63	277	241	152
ODYSSEY	4-6	125	6,612	9,185	9,852	184	208	242	298	345	407
OLD WORLD BACKGROUND	7-12	25	31,883	31,741	29,353	447	448	413	1,284	1,297	1,167
OURSTORY	6-12	104	9,061	13,330	8,192	116	163	94	376	544	334
PALMETTO SPECIAL, THE	7-12	17	37,824	35,663	34,188	593	553	517	1,609	1,698	1,415

* SERIES RANK: Based on number of using students.

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
SOCIAL STUDIES (continued)											
PENNYWISE	1-3	78	12,392	10,374	11,426	568	490	540	586	499	562
PORTRAIT OF AMERICA	5-12	129	6,452	5,281	4,150	112	98	82	269	236	182
PSYCHOLOGY 101	11-12	144	5,674	5,270	3,600	101	960	80	231	208	151
S.C. GEOGRAPHY	6-9	49	18,636	-	-	368	-	-	832	-	-
SANDLAPPER'S CORNER	3	13	42,086	42,885	41,241	1,764	1,834	1,718	1,971	2,063	1,932
SAUDI ARABIA	9-12	114	7,440	7,574	9,457	101	143	113	296	321	373
SPIRIT OF THE LAND	6-12	185	1,182	11,660	-	19	30	-	46	67	-
TAXWHYS: UNDERSTANDING TAXES	9-12	108	8,489	-	-	134	-	-	363	-	-
TOO MUCH, TOO LITTLE	9-12	198	368	-	-	9	-	-	20	-	-
TRADE-OFFS	4-6	115	7,193	6,492	5,377	197	176	136	314	280	214
TRULY AMERICAN	4-8	21	35,460	38,694	35,310	877	875	809	1,567	1,688	1,494
UNDER THE BLUE UMBRELLA	1	31	29,211	31,611	30,250	1,421	1,499	1,421	1,456	1,562	1,499
UNDER THE YELLOW BALLOON	1-3	36	25,648	27,572	28,016	1,184	1,286	1,316	1,230	1,349	1,364
UNDERSTANDING OUR WORLD	4-6	61	15,681	16,978	15,107	407	444	391	672	728	633
U.S. HISTORY	9-12	16	38,735	43,494	35,276	520	566	461	1,592	1,786	1,434
WAYS OF THE LAW	10-12	55	16,536	12,900	14,377	255	222	217	709	558	590
WHAT IS ...?	6-12	158	4,389	4,078	1,535	53	57	25	173	162	59
WHAT'S IN THE NEWS	4-6	7	52,302	48,536	45,183	1,346	1,275	1,201	2,325	2,111	1,950
WHERE ARE WE?	2-4	113	7,479	-	-	313	-	-	339	-	-
ART											
ARTS ALIVE	6-8	166	3,865	3,216	2,797	62	48	48	167	141	134
ARTS-A-BOUND	5-7	173	2,899	1,929	751	25	33	24	125	89	36
ARTSCAPE	4-6	105	9,005	9,782	8,211	97	103	68	365	422	345
BIG A, THE	1-3	156	4,958	-	-	124	-	-	230	-	-
DRAW ALONG	1-3	28	31,436	22,390	32,286	1,250	946	1,348	1,477	1,071	1,512
IMAGES & THINGS	4-7	161	4,255	2,963	3,371	87	93	92	177	144	152

* SERIES RANK: Based on number of using students.

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
ART (continued)											
RETURN OF THE ARTMAKER	5-7	117	7,148	2,848	-	63	72	-	274	256	-
VISIONS: ARTISTS AND THE CREATIVE PROCESS	11-12	170	3,382	2,147	1,820	46	31	31	140	95	88
MUSIC											
CHRISTMAS SPECIALS HOLIDAY VIEWING	K-12	2	104,572	-	-	3,095	-	-	4,822	-	-
EXPERIENCES IN MUSIC, DRAMA & DANCE	7-12	121	6,792	4,893	6,853	95	74	105	297	216	306
GUITAR	4-12	197	467	341	411	12	13	14	23	19	22
HARMONY	2-3	119	6,939	5,719	5,749	128	138	127	302	260	253
IT'S MAINLY MUSIC	4-6	152	5,274	3,080	2,996	53	37	41	215	131	126
MEET AN ORCHESTRA MUSICIAN	4-8	157	4,591	3,663	-	47	48	-	210	151	-
MUSIC AND ME	1-6	81	12,072	7,493	7,736	136	123	114	518	330	334
MUSICAL ENCOUNTER	3-6	150	5,292	3,168	1,134	44	36	27	211	111	50
PHYSICAL EDUCATION, HEALTH AND SAFETY											
ANTI-SMOKING SPECIALS		30	29,596	-	-	691	-	-	1,330	-	-
BEFORE THE STORM	7-12	187	1,069	-	-	19	-	-	55	-	-
CALLING ALL SAFETY SCOUTS	1-3	62	15,265	11,955	11,062	694	512	469	741	577	532
CONRAD	6-9	118	6,966	7,572	7,354	182	182	191	317	338	336
FEELING FIT	9-12	130	6,435	6,114	-	125	101	-	283	243	-
GROWING UP	5-8	137	5,982	5,485	6,579	104	93	117	243	248	277
INSIDE/OUT	4-7	57	15,952	15,573	16,040	572	520	629	761	710	781
INSIDE STORY WITH SLIM GOODBODY, THE	3-5	23	33,201	34,141	29,233	1,370	1,339	1,138	1,547	1,562	1,355

* SERIES RANK: Based on number of using students.

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES 87-88	86-87	85-86	TEACHERS USING SERIES 87-88	86-87	85-86	CLASSES USING ITV 87-88	86-87	85-86
PHYSICAL EDUCATION, HEALTH AND SAFETY (continued)											
LEAPS & BOUNDS	K-2	132	6,278	5,690	4,780	146	118	111	286	240	234
MULLIGAN STEW	4-7	159	4,381	3,633	4,926	130	113	138	198	166	235
ON THE LEVEL	8-12	91	10,632	12,250	10,122	173	180	182	485	525	467
OUNCE OF PREVENTION, AN	4-6	195	500	454	1,121	14	11	25	28	23	57
POWERHOUSE	5-8	39	24,082	28,832	26,336	632	729	691	1,186	1,394	1,249
RIGHT WAY, THE	9-12	109	8,256	10,439	7,368	128	137	134	483	529	411
SCHOOL BUS SAFETY	K-12	29	29,993	27,131	26,521	1,131	989	966	1,389	1,249	1,234
SELF INCORPORATED	5-8	88	11,165	13,188	10,543	238	281	300	532	615	532
SOUP TO NUTS	4-8	127	6,472	5,518	6,596	94	94	138	319	263	337
WELL, WELL, WELL WITH SLIM GOODBODY	1-3	26	31,814	21,485	2,494	1,405	969	115	1,528	1,034	123
VOCATIONAL AND CAREER EDUCATION											
AND SEW ON	7-12	153	5,215	-	-	127	-	-	268	-	-
BREAD & BUTTERFLIES	4-7	148	5,366	6,530	5,048	170	140	145	293	308	249
CAREER PLANNING	9-12	136	6,015	-	-	156	-	-	342	-	-
DIMENSIONS OF CHILD DEVELOPMENT	11-12	169	3,754	-	-	94	-	-	179	-	-
FOOTSTEPS	11-12	145	5,665	-	-	122	-	-	266	-	-
KEYS TO THE OFFICE	11-12	172	2,909	-	-	74	-	-	162	-	-
MAKING IT WORK	9-12	110	7,997	-	-	168	-	-	438	-	-
PHOTO TIPS	6-12	190	874	661	-	23	16	-	50	39	-
PICKING YOUR PATH	3-6	179	1,894	-	-	46	-	-	86	-	-
PRINCIPLES OF TECHNOLOGY	10-12	189	1,006	404	460	21	12	10	64	31	24
SPACES	5-8	191	693	1,021	751	11	15	14	42	42	33
WORKSHOP HINTS	8-12	177	2,399	1,916	2,641	54	35	46	154	113	134
WORLD OF WORK	9-12	162	4,209	-	-	85	-	-	244	-	-

* SERIES RANK: Based on number of using students.

INSTRUCTIONAL TELEVISION UTILIZATION HISTORY

SERIES	GRADE LEVEL	SERIES RANK*	STUDENTS USING SERIES			TEACHERS USING SERIES			CLASSES USING ITV		
			87-88	86-87	85-86	87-88	86-87	85-86	87-88	86-87	85-86
COMPUTER-ASSISTED INSTRUCTION											
COMPUTER ROOM, THE	4-7	165	3,931	2,833	-	51	46	-	185	124	-
COMPUTERBREAK	4-8	139	5,876	4,294	5,853	92	98	112	270	247	271
INCOME/OUTCOMES	9-12	206	14	112	180	1	2	1	1	5	6
NIBBLES	6-12	175	2,514	745	-	35	14	-	123	37	-
SOLUTIONS UNLIMITED	6-8	196	483	358	440	7	6	2	25	16	22
PBS VIDEO CATALOG PROGRAMS											
PBS VIDEO CATALOG PROGRAMS	6-12	15	39,011	-	-	483	-	-	1,694	-	-
K-12 STUDENTS VIEWING STAFF DEVELOPMENT											
CHOOSING A COLLEGE		202	194	-	-	8	-	-	8	-	-
CIPHER IN THE SNOW		201	263	-	-	4	-	-	9	-	-
COMPETITIVE EDGE, THE		205	35	-	-	1	-	-	1	-	-
IMPROVING TEST SCORES		204	90	-	-	1	-	-	3	-	-
LIBRARY SKILLS		163	4,202	-	-	22	-	-	154	-	-
LOOK AT ME		203	158	-	-	3	-	-	6	-	-
MOVIN' RIGHT ALONG		200	285	-	-	5	-	-	11	-	-
PHILLIP'S INSIGHT		184	1,213	-	-	5	-	-	64	-	-
RAINBOW'S END		207	14	-	-	1	-	-	2	-	-
S.C. CHILDREN'S & YOUNG ADULTS' BOOK AWARDS		192	684	-	-	7	-	-	28	-	-
DRUGS: THE DEADLY GAME		199	314	-	-	12	-	-	15	-	-
SHAKESPEARE PLAYS		140	5,837	-	-	82	-	-	255	-	-
USSR TELECONFERENCE		168	3,760	-	-	47	-	-	174	-	-
THE WORLD'S LARGEST CONCERT		133	6,269	-	-	90	-	-	260	-	-

* SERIES RANK: Based on number of using students.

UTILIZATION TRENDS IN ITV

UTILIZATION

Utilization Growth

Utilization grew in 1987-88 due to a combination of key factors. These included the addition of 21 new series, the installation of new building distribution systems, the purchase of new videotape machines, and the support supplied to teachers by building coordinators and utilization consultants. Utilization growth should continue in 1988-89 as the ITV series inventory is updated, as ITFS reception is expanded, and as reception improvements continue to be made by the S.C. ETV Network. The subject area having the highest series usage was language arts with 28 percent of the total, followed by social studies with 25 percent.

RECEPTION

Information on television equipment located in schools and used directly with students for instructional purposes was collected from the ITV and equipment inventory component of the utilization survey.

Instructional Use of TV Sets

A total of 16,752 television sets were reported used by students in classrooms or libraries for viewing ITV resources.

TV Sets

Eighty-five percent of all TV sets used for instruction were color, and 96 percent of the schools had some color sets for instructional purposes. A total of 18,754 teachers had use of 16,752 sets for instruction, 2,002 fewer TV sets than teachers.

Quantity of TV Sets

	For Instructional Use		Total	
	1987-88	1986-87	1987-88	1986-87
Number of TV Sets	16,752	15,253	18,942	17,488
Amount of Change	+1,499	+1,516	+1,454	+2,030
Percent of Change	9.82%	11.04%	8.31%	13.13%
Number of Schools	1,068	-	1,087	1,081
Percent of Schools	96.56%	-	98.28%	97.91%
Number of Schools w/Color TVs	1,065	-	1,084	1,079
Percent of Schools	96.29%	-	98.01%	97.73%
Number of Districts w/TVs	92	92	92	92

Color Status of Total TV Sets

	Number		Percent	
	1987-88	1986-87	1987-88	1986-87
Black/white	3,313	4,309	17.49%	24.64%
Color	15,629	13,179	82.51%	75.36%
Totals	18,942	17,488	100.00%	100.00%

Color Status of Instructionally Used TV Sets

	Number		Percent	
	1987-88	1986-87	1987-88	1986-87
Black/white	2,476	3,395	14.78%	22.26%
Color	14,276	11,858	85.22%	77.74%
Totals	16,752	15,253	100.00%	100.00%

VTRs

School districts, individual schools, and PTA/PTO units continued to provide VTRs to improve local scheduling of ITV programs. An additional 388 instructionally used VTRs were purchased either with local or state money, a 16 percent increase in VTR availability over the previous year. There were a total of 2,770 VTRs/VCRs in our schools which were used for taping/playback of ITV programs.

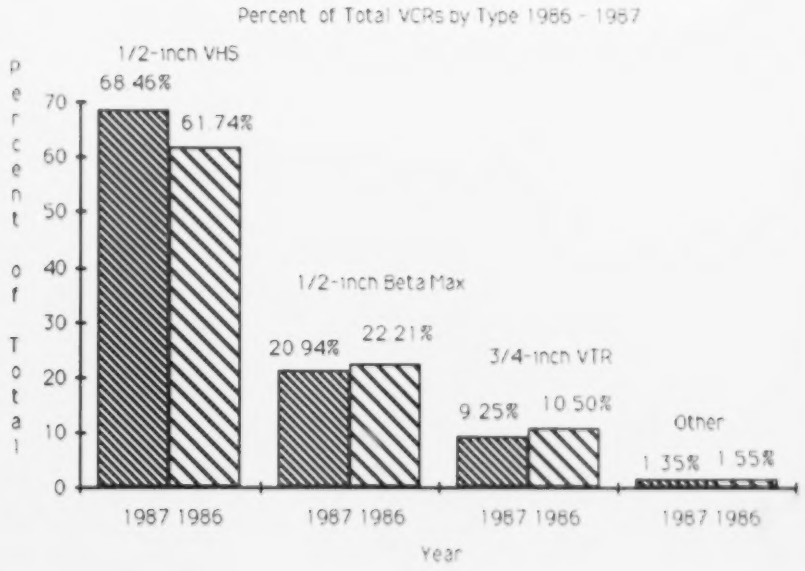
Quantity of VTRs

	For Instructional Use		Total	
	1987-88	1986-87	1987-88	1986-87
Number of VTRs	2,770	2,382	3,931	3,156
Amount of Change	+388	+540	+775	+981
Percent of Change	16.28%	29.31%	24.56%	45.10%
Number of Schools	1,023	-	1,075	1,051
Percent of Schools	92.49%	-	98.10%	95.46%
Number of Districts w/VTRs	92	92	92	92

Type of VTRs

	Number		Percent	
	1987-88	1986-87	1987-88	1986-87
3/4-inch cassette VTR	364	332	9.25%	10.50%
1/2-inch cassette Beta-Max	824	829	20.94%	22.21%
1/2-inch cassette VHS	2,694	1,953	68.46%	61.74%
Other	53	49	1.35%	1.55%
	3,931*	3,156*	100.00%	100.00%

The most common VCR in our schools is VHS videocassette machines, now represent 68 percent of all VCRs in our schools, up from 62 percent last year. Beta-Max and 3/4-inch VCRs now comprise 21 and 9 percent respectively of all VCRs in schools. (See chart below.)



* Figures exceed the total of 3,931 VCRs for 1987-88 and 3,156 VCRs for 1986-87 due to reporting errors.

ETV Reception Equipment Funds

These funds became available through S.C. ETV for the second straight year, and were matched with television equipment purchases by the schools. The ETV-funded equipment placed was primarily to encourage replacement of aging black-and-white TV sets.

Summary of TV Equipment Placed By S.C. ETV

TV Sets	
25" TVs	129
19" TVs	158
	287
TV Stands	7
VCRs	4

STAFF DEVELOPMENT

A complete listing of program descriptions and broadcast schedules was included in the annual S.C. Instructional Television and Radio Resources book

A diversified program of staff development offerings was broadcast daily over S.C. ETV open- and closed-circuit networks from 3:00-4:30 p.m., and over the S.C. Educational Radio Network from 3:00-4:00 p.m. for use as credit courses, resources for district certificate-renewal point plans, and professional development on a non-credit basis. This program consisted of 43 ITV and radio series and 99 single-program specials, comprising a total of 399 TV and radio programs. Programs were available to school administrators, district curriculum staff, teacher aides, and building custodial workers in 33 major areas.

	Educators Receiving Certificate-Renewal Credit		
	1987-88	**1986-87**	**1985-86**
Credit Courses			
Science in the Elementary School:			
Life Science	19	6	-
South Carolina History for Teachers	384	-	-
	403	6	-
Staff Development Resources Used by Teachers			
Total Series and Program Usage:			
ITV	4,722	5,071	8,728
IR	775	915	60
	5,497	5,986	8,788
Individual Teachers Using Staff Development:			
ITV	921	629	6,028
IR	56	139	312
	977	768	6,340

	1987-88	1986-87	1985-86
ITV			
ADULT EDUCATION VIDEO NEWSLETTER	11	-	-
ALL THE DIFFERENCE	275	296	-
ART OF STORYTELLING, THE	119	-	-
AUTOMATED MANAGEMENT SYSTEMS	31	-	-
CIPHER IN THE SNOW	206	-	-
CLASSROOM MANAGEMENT IN P.E.	64	-	-
COACHING FOR IMPROVED TEACHING	223	-	-
COMPUTERS ACROSS THE CURRICULUM	43	-	-
CONTINUOUS ASSESSMENT IN EARLY CHILDHOOD	10	-	-
COPYRIGHT ISSUES	539	1,037	5,052
CREATIVE THINKING SKILLS	80	247	-
CUSTODIAL TRAINING	41	-	-
DIMENSIONS OF CHILD DEVELOPMENT	65	-	-
DOWN HOME ADVICE FOR EDUCATORS	35	-	-
DR. M. HUNTER: TOM CHAPPELEAR LECTURE	457	-	-
EARLY CHILDHOOD PROGRAMS	28	-	-
EDUCATION OF THE HANDICAPPED PROGRAMS	15	-	-
EIA SCHOOL IMPROVEMENT COUNCILS	273	264	-
EVALUATION-BSAP MATHEMATICS ACHIEVEMENT	116	491	-
EVALUATION-BSAP READING ACHIEVEMENT	87	283	-
FOCUS ON EDUCATION	27	-	-
FREQUENT MONITORING OF STUDENT PROGRESS	19	-	-
GAMES PROGRAMS IN P.E., THE	18	-	-
I'M SPECIAL	65	-	-
IMPROVING TEST SCORES	47	203	422
LIBRARY SKILLS	240	-	-
LOOK AT ME	28	-	-
MATHEMATICS IN-SERVICE: ITV HELPING	33	-	-
MOTIVATING TEACHERS AND STUDENTS	151	191	-
MOVIN' RIGHT ALONG	28	-	-
NATURAL HISTORY IN THE CLASSROOM	12	-	-
ON AND ABOUT MICROCOMPUTERS	24	-	-
PHILLIP'S INSIGHT	16	-	-
PLEASE LISTEN TO WHAT I'M NOT SAYING	54	-	-
S.C. CHILDREN'S AND YOUNG ADULTS' BOOK AWARDS	183	197	-
SCHOOL BUS SAFETY	259	-	-

Utilization of Selected Series and Programs (continued)

	1987-88	1986-87	1985-86
ITV			
SCHOOL PERFORMANCE REPORTS	12	-	-
SIPTEL STANDARDS IMPLEMENTATION PROJECT	10	-	-
SOLVING THE PROBLEM OF MATH PROBLEM-SOLVING	30	-	-
STEVE GLENN SPEAKS TO PARENTS	35	-	-
TRANSFORMATIONS AFFECTING EDUCATION	210	-	-
UPDATE: DEPARTMENT REPORT	12	-	-
UPDATE: MUSIC EDUCATION	23	-	-
WELCOME BACK TO SCHOOL	404	328	400
WINGS FOR EVERYONE: INTRO. TO TEACHING	59	-	-
IR			
AN INVITATION TO LEARN/SUCCEED	70	69	145
BELIEVING IN CHILDREN	23	-	-
CHILDREN AD 2000	15	-	-
CLASSROOM MANAGEMENT	29	40	-
CREATIVE THINKING SKILLS	17	59	-
EFFECTIVE SCHOOLS RESEARCH & PRACTICE	43	-	-
GO AHEAD AND TEACH, YOU DON'T BOTHER ME NONE	83	89	125
HANDLING STRESS	25	-	-
LIBRARY NEWSLETTER	70	72	-
MOTIVATING TEACHERS AND STUDENTS	67	-	-
PLEASE LISTEN TO WHAT I'M NOT SAYING	26	-	-
PROFESSIONAL DEVELOPMENT OF TEACHERS	14	-	-
SELF-CONCEPT	29	32	38
STEVE GLENN SPEAKS TO PARENTS	33	-	-
STRENGTHENING THE FAMILY	25	-	-
SUCCESS STRATEGIES FOR EDUCATORS	19	-	-
THEY'RE DEMANDING QUALITY EDUCATION	46	50	83
TIPS FOR TEACHING THE YOUNG AND RESTLESS	31	44	-
UPDATE: ADULT EDUCATION	11	-	-
WHAT DO WE MEAN BY EFFECTIVE SCHOOLS	10	-	-
WHAT I DID FOR LOVE	26	-	-
WHEN CHILDREN TALK BACK...LISTEN	41	-	-

EDUCATIONAL CONFERENCES/WORKSHOPS

Instructional Television	**Presentation**	**Display**
Superintendents Summer Conference, Myrtle Beach		
Tax-Wise Consortium, Memphis		
"First View"-SECA Conference, San Diego	1	
New Administrators Institute, Myrtle Beach		
SECA Fall Conference, Baltimore		
New Guidance Counselors' Conference, Columbia	1	1
S.C. Library Assoc. Conference, Greenville		
State Social Studies Conference, Columbia		
S.C. State Science Fall Conference, Charleston		
S.C. Leadership Wellness Seminar, Irmo		
Ed Fair, Columbia		
S.C. AECT Annual Convention, Hilton Head	1	
ITFS Taping Centers' Conference on Technical Topics, Columbia	1	
S.C. Assoc. of School Librarians, Columbia	1	
S.C. Leadership Academy: Seminar on Presentations, Anderson		
Copyright Seminar, Columbia		
13th Annual Taping Centers' Conference, Columbia	1	
Understanding Taxes Workshop, Columbia		
National ITV Utilization Conference, Phoenix	1	1
Summer Leadership Institute, Myrtle Beach	1	
	8	2
Computers		
SCCCE State Computer Conference, Columbia	1	
Orangeburg #5 Computing Showcase, Orangeburg		
Florida Instructional Computing Conference, Orlando		
SEED Annotators' Meeting, Raleigh		
Computing Conference, Charleston		
Early Childhood Institute, Columbia	1	
Media Leadership Conference, Wilmington		
	2	0
	10	2

TELECONFERENCES

Teleconferences continue to be recognized by the department as an innovative and economical means of facilitating meetings. Teleconferences held during the past two years and projected for 1987-88 include the following.

Teleconference	1987-88
Automated Management System for the Library	1
Videodisc Applications for Educators	1
USA-USSR Youth Summit	1
Black History	1
Star Schools Distance Learning Project	1
Meeting Educational Needs	1
National Teleconference on Libraries	1
Instructional Technology State Committee	1
Asbestos	1
Update: Music Education	4
Total	13

STATEWIDE COMPUTER SURVEY RESULTS

INTRODUCTION

The April 1988 Computer Survey was the fifth statewide assessment of computer use by schools and districts by the State Department of Education. A comparison of data from 1983-1988 is provided where available to give evidence of trends in the acquisition and use of computer technology.

SURVEY DESIGN

The questionnaire inventoried computer equipment and software, and dealt with such issues as instructional and administrative uses of computers funding. An eight-question school form and a five-question district form was developed and distributed to all South Carolina public school principals and district superintendents. All 1,106 schools and 92* school district offices were sent survey forms.

RESPONSE RATE

For the computer survey, the response rate for school district offices was 92 returned forms, or 100 percent, and for schools, 1,075 forms returned, or 97 percent.

SURVEY RESULTS

Computer Equipment Inventory

1. Instructional and Administrative Use

   Of the 29,766 computers in schools, 86 percent were used for instruction and 8 percent for administration in both secondary and elementary schools.

* *Includes Department of Youth Services*

2. Computer Hardware Availability in Schools

	Instructional Use		Total	
	1987-88	1986-87	1987-88	1986-87
Number of Computers	25,458	21,088	29,766	24,041
Amount of Change	4,370	6,966	5,725	9,082
Percent of Change	20.72%	49.32%	23.81%	60.71%
Number of Schools with Computers	996	-	1,074	1,061
Percent of Schools	90.05%	-	97.10%	96.37%
Number of Districts with Computers	92	92	92	92
Percent of Districts	100%	100%	100%	100%

3. Change in Total Computers in Schools by Brand

Brand	1987-88	1986-87
Apple	17,386	14,686
IBM	4,933	3,574
Radio Shack	2,381	2,071
Atari	984	494
Commodore	837	854
Computer Curriculum Corporation	699	423
NCR	563	369
WICAT	402	370
Others	1,581	1,200
	29,766	24,041

4. Change in Computers in Schools by Use

	1987-88	1986-87	Percent Change
Total Computers	29,766	24,041	23.81%
Instructional	25,458	21,088	20.72%
Administration	2,327	1,553	49.83%
Both Instr. & Admin.	1,962	1,444	35.87%
Printers	8,966	6,850	30.89%

5. Ratio of Computers to Students

	1987-88	1986-87	1985-86
Total Computers*			
Grades K-12	1:19	1:25	1:40
Grades K-7	1:23	1:40	1:49
Grades 8-12	1:16	1:16	1:31
Instructionally Used Computers			
Grades K-12	1:23	1:29	1:42
Grades K-7	1:27	1:47	1:52
Grades 8-12	1:18	1:18	1:33
180-Day Student Enrollment			
Grades K-12	632,044	626,521	620,830
Grades K-7	398,489	390,287	385,257
Grades 8-12	233,555	236,234	235,573

6. Instructional and Administrative Uses of School Computers and Printers

		Instr. Use		Admin. Use		Instr. & Admin Use		Printers	
Sch. Level	Total Comp.	Qty.	% of Total	Qty.	% of Total	Qty.	% of Total	Qty.	% of Total
Elem.	15,889	13,572	85.42%	1,228	7.73%	1,076	6.77%	3,839	42.82%
Sec.	13,877	11,886	85.65%	1,099	7.92%	886	6.38%	5,127	57.18%
Total	29,766	25,458	85.52%	2,327	7.82%	1,962	6.59%	8,966	100.00%

** Total computers includes those used for administration and instruction.*

7. Number of Computers in Schools

	Number of Computers		% of Total Computers		Number of Schs. with Computers		Ratio of Comp. to Schs. with Computers	
	1987	1986	1987	1986	1987	1986	1987	1986
Elementary	15,889	9,384	53%	39%	771	627	21.0/ School	15.0/ School
Secondary	13,877	14,657	47%	61%	303	434	46.0/ School	34.0/ School
Total	29,766	24,041			1,074	1,061	22.0/ School	22.0/ School
Percent of Schools with Computers:					97.1%	96.4%		

8. Frequency of K-12 Schools per Number of Computers

Number of Computers Per School	Number of Schools with Indicated Number of Computers 1987	1986	1985
1	101	69	177
2	53	49	104
3	50	62	90
4	42	53	76
5	38	48	61
6	47	51	61
7	40	47	52
8	47	51	47
9	37	49	39
10	35	36	44
11	34	26	40
12	48	39	29
13	33	37	20
14	33	38	20
15	31	30	26
16	27	31	24
17	23	34	22
18	23	28	17
19	25	21	9
20	20	15	21
21 +	287	247	83
Total Schools	1,074	1,061	1,062
Number of Schools Having 1 to 2 Computers	154	118	282
Number of Schools Having 10 or More Computers	619	582	311

ITV AND RADIO AWARENESS

The office, with the assistance of S.C. ETV, continued an active informational program for educators and the general public. Highlights of this effort included:

- Newsletters

  Four issues of the "Instructional Technology Newsletter" were published, featuring articles of interest to educators. These included information on resources; examples of educational practices, and information about newsworthy events and credit courses offered.

- UPDATE: DEPARTMENT REPORT

  These nine monthly television programs featured various offices of the State Department of Education with announcements of current interest to educators. Programs were also rebroadcast over the S.C. Educational Radio Network.

- American Education Week

  A program relating to the national and statewide use of instructional television and radio was scheduled on S.C. ETV's OPEN LINE at during American Education Week.

PLANS FOR 1988-89 TO EXPAND

AND IMPROVE UTILIZATION AND RECEPTION

Utilization

In addition to projected in-services and other consultant services, the following activities are planned to improve the quality and quantity of ITV/radio usage.

- Staff Development Programming

  For Teachers: Previews of new ITV resources are provided during May. Special programs on general utilization techniques and of individual series are scheduled throughout the year.

  For Building Coordinators: The following special programs, designed for the particular needs of building coordinators, are scheduled.

  - Role of the Building Coordinator (new) 10/14/88
  - VTR/VCR Scheduling Techniques (new) 8/24/88 9/2/88
  - Scheduling Television Sets (new) 8/24/88 9/7/88
  - ITV Utilization Survey (new) 3/29/89 4/3/89

- District Distribution Center Personnel

  The 14th Annual Spring Conference will be held on June 1, 1989. The conference is held for district distribution center personnel to review curriculum needs.

Network Expansion and Local Reception Improvements
Projected for 1988-89

ITFS Expansion Phase

The General Assembly approved four million dollars to begin the expansion of the ITFS Network. Projects planned with the new money are expected to be completed within two to three years, dependent on the release of funds from the General Assembly. School locations for this phase were selected because of a danger of losing E and F allocations of ITFS frequencies to non-education usage. Eight new ITFS district distribution centers are planned, in addition to the 14 currently in existence. Each center is a cooperative effort between school district(s), the S.C. ETV Network, and the Sate Department of Education. Each ITFS center will receive a four-channel ITFS facility for broadcasting secondary ITV resources to all middle, high, and vocational schools within their coverage areas and a videotape library of ITV and staff development resources for grades 7-12. Continued efforts will be made to secure funding for the remainder of the statewide ITFS Network for schools either not served or without full service.

The eight projected new ITFS centers are as follows.

- Anderson County (Districts 1-5)
- Charleston County
- Chester/Union Counties
- Colleton County
- Lexington County (Districts 1, 3)
- Marlboro County
- Oconee County
- York County (Districts 1, 2, 4)

Minor Project Installation

S.C. ETV plans to continue the installation of regular and portable classroom outlets on a cooperatively funded basis with school districts as funds are available.

ITFS Expansion Needs

There are presently 629 schools and school facilities that should be receiving closed-circuit/ITFS system services, 240 of these now receive full ITFS service. Another 189 have only partial ITFS service (receiving only two of the four possible closed-circuit channels) and 200 other schools and school facilities receive no ITFS services.

ITFS Line Feeds

The service of providing line, program feeds, or special broadcasts by request of a school or taping center over the ITFS Network has been drastically reduced due to their high costs. Line feeds are only available now on an emergency basis for staff development and some special K-12 programs. Line feeds totaled 3,486 in 1986-87 and 1,108 in 1987-88.

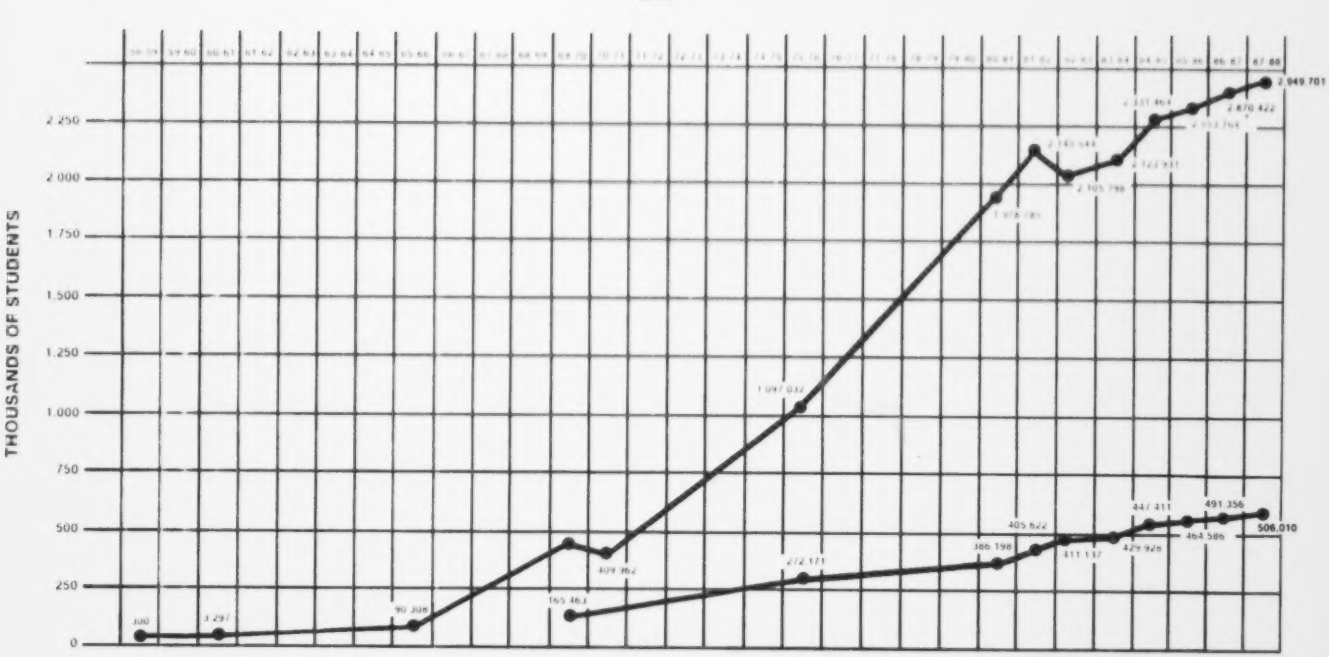
Computer Software Evaluation Project (SEED)

The seven member states of the Software Evaluation Exchange Dissemination (SEED) project (Mississippi joined in June 1986) are continuing the project for 1988-89. Each state is to complete upwards of 75 evaluations, for which we will train additional evaluators in a series of regional workshops to be held in October and November 1988.

Subject areas of the software titles to be evaluated will primarily include language arts, mathematics, social studies, and science.

ITV UTILIZATION - 29 YEARS

TOTAL ITV SERIES USAGE
TOTAL INDIVIDUAL STUDENTS VIEWING



This chart shows the total ITV series usage, which counts students for each different series viewed and the number of individual students viewing ITV. Individual students viewing ITV was not officially documented until 1969-70. For further information, contact the S.C. State Department of Education's Office of Instructional Technology, 206 Rutledge Building, Columbia, S.C. 29201

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